

**INDIAN BUREAU OF MINES**  
**MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**  
**MCDR INSPECTION REPORT**  
**Ranchi Regional Office**

Mine file No: MCDR-MiFL0BXT/2/2022-RCH-IBM\_EZ

Mine code: 30BHR27024

Date of Inspection: 13.09.2024

**1. GENERAL**

Sl. No.	Particulars	Details
1.	Name of the Mines	Pakhar Bauxite Mines 15.58 Ha
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	15.58Ha Non-forest – 15.58Ha Forest – 0Ha
3.	Mine code	07BHR33009
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/935/2011
5	Name of the lessee, Address, Phone, email and fax number	M/s Hindalco Industries Limited Court Road, Lohardaga-835302
6	Village	Kisko
7	Taluka/Mandal	Lohardaga
8	District	Lohardaga
9	Pin code	835302
10	State	Jharkhand
11	Post Office	Nari Nawadih
12	Nearest Police Station	Kisk
13	Nearest Railway station	Lohardaga
14	Date of Grant of Mining Lease	28.04.1965
15	Date of Execution	28.04.1965
16	Date of Opening of Mine	09.12.2005
17	Date of First Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email ,fax number and date of appointment	Mr. Bijesh Kumar Jha, M/S Minerals & Minerals Limited, Court Road, Lohardaga, Jharkhand Phone No. +91 06526224016 Email: <a href="mailto:bijesh.jha@adityabirla.com">bijesh.jha@adityabirla.com</a> Date of appointment: 30.07.2018
21	Name of the Mine Agent with Address, phone email, fax number and date appointment in mines.	Mr. Prateek Kumar, M/S Minerals & Minerals Limited, Court Road Lohardaga, Jharkhand Phone No. +91 7738368627 Email: <a href="mailto:prateek.kumar@adityabirla.com">prateek.kumar@adityabirla.com</a> Date of appointment: 01.12.2022
22	Name of the Mines Manager with Address, Phone, email, fax number and date of appointment	Mr. Deepak Kr. Jha, M/S Minerals & Minerals Limited, Court Road Lohardaga, Lohardaga Fax No. 06526224118 Phone No. +91 7549886293 Email: <a href="mailto:deepak.jha@adityabirla.com">deepak.jha@adityabirla.com</a> Date of appointment: 25.04.2022
23	Name of the mining engineer, qualification and total experience with Address, phone, email, fax number and date of appointment in Mines.	Mr. Deepak Kr. Jha, M/S Minerals & Minerals Limited, Court Road Lohardaga, Lohardaga Fax No. 06526224118 Phone No. +91 7549886293 Email: <a href="mailto:deepak.jha@adityabirla.com">deepak.jha@adityabirla.com</a> Date of appointment: 25.04.2022
24	Whether Geologist and Mining Engineer appointed in Mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes <b>Geologist-</b> Sayantan Das <b>Mining engineer-</b> Deepak Jha
25	Date of Approval of Mining Plan/Modified Mining Plan with five-	28.01.2023

	year period and specific condition in approval letter, if any.	
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	28.01.2023
27	Mineral(s) granted in lease and proved for mining	Yes
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Manual
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

### Exploration

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Nil	Nil	Mine is not operational
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	Mine is not operational
1c	Exploration Agency & Expenditure in lakh Rupee during the year	Nil	Nil	Mine is not operational
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Mine is not operational
1e	Balance reserves as on 01.04.2024	81853.67	138225.00	Mine is not operational
1f	General remarks of inspecting officer on geology, exploration etc.	Mine is not operational		

### Development

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t lease area	1. Quarry -01 (N2604902. – N2604858), (E 254974–E 254922) 2. Quarry -2 (N2605094– N 2604619) (E255167– E255188) 3. New quarry -5 (N2605226 – N2605094), E255220 – E255166)	Nil	Mine is not operational
2b	Separate benches in top soil, overburden and mineral (Rule 15)	Yes	Yes	Mine is not operational
2c	Stripping ratio or ore to OB ratio	1:0.27	Nil	Mine is not operational
2d	Quantity of topsoil generation in m <sup>3</sup>	32629.20 m <sup>3</sup>	Nil	Mine is not operational
2e	Quantity of overburden generation in m <sup>3</sup>	41366.11 m <sup>3</sup>	Nil	Mine is not operational
2f	General remarks of inspecting officer on development etc.	Mine is not operational		

**Exploitation**

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposal for production	Quarry -01 (N2604902. – N2604858), (E 254974–E 254922)  Quarry -2 (N2605094– N 2604619) (E255167– E255188)  New quarry -5 (N2605226 – N2605094), E255220 – E255166)	Nil	As per office records and plan furnished.
3b	Quantity of ROM mineral production proposed	56451.33 MT	80 MT	Mine was not operational
3c	Recovery of salable/usable mineral from ROM production	80%	80%	ok
3d	Quantity of mineral reject generation	2772.99 MT	0 MT	Mine was not operational
3e	Grade of mineral reject generation and threshold value declared	Al <sub>2</sub> O <sub>3</sub> %: 30% Threshold value SiO <sub>2</sub> % =<7%	Al <sub>2</sub> O <sub>3</sub> %: 30% Threshold value SiO <sub>2</sub> % =<7%	
3f	Quantity of sub-grade mineral generation	Nil	Nil	Nil
3g	Grade of sub-grade mineral generation	Nil	Nil	Nil
3h	Manual/Mechanized method adopted for segregating from ROM	Manual	Manual	ok
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Sub-grade Generation	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Yes Use of ANFO, NONEL detonating fuse, Safety fuse, Spacing burden- 3m*2.5m	Nil	Mine was not operational
3k	Provision of mining machineries in mineral benches	Yes	Yes	Mine was not operational
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Mine was not operational
3m	Total area covered under excavation/pits	1.44	Nil	Mine was not operational
3n	Ore to OB ratio for the pit/mine during the year	1:2.62	Nil	Mine was not operational
3o	Total area put in use under different heads at the end of year	Mining: 7.62 Ha.	Mining: 0 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21:58402 2021-22:59756 2022-23:27000 2023-24:54640	2020-21 :27800 2021-22:12100 2022-23: 600 2023-24: 80	
3q	General remarks of inspecting officer on method of mining etc.	Mine was not operational		

**Solid Waste Management-Dumping**

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
4a.	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate stacking of OB and Mineral- Nil	Separate stacking of OB and Mineral- Nil	As per approved document
4b	Location of topsoil, & OB & mineral reject dumps (Give coordinates with mRL)	Nil	Nil	Nil
4c	Number of dumps within lease area and outside lease area	1	1	ok
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southern most area of ML	Southern most area of ML	ok
4e	Number of active & alive dumps	Nil	Nil	Nil
4f	Number of dead dumps	Nil	Nil	Nil
4g	Number of dumps stabilized	1	1	ok
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	Nil
4j	Number of settling ponds	0	0	Nil
4k	Specific comments of inspecting officer on waste dump management	Mine was not operational and no work was done in the reporting year.		

**Solid Waste Management-Backfilling**

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	Nil
5b	Area under backfilling of mined out area	1.49 Ha	Nil	As per Approved Mining Scheme
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Plantation	Plantation	Plantation
5d	Total area fully reclaimed & rehabilitated	Quarry-1:1.49 Ha	Nil	Mine was not operational
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mine was not operational and no work was done in the reporting year.		

**Progressive Mine Closure Plan**

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly- Rule 23E(2). Details should be given in the format as given in Annexure-20	Yes	Yes	As per records
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of sapling planted during the year iv) Cumulative no. of plants	I. Nil II. 0.77ha III. 0.77 ha IV. 2500 V. Nil VI. Nil VII. Nil	• Nil • Nil • Nil • 2150 • 129608 • Nil • ₹ 263250.00	

	v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year			
6c	Compliance on reclamation and rehabilitation by back filling i) Voids available for backfilling (LxBxD) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	1) 0.77 ha 2) 95x92x12 3) 0.77 ha 4) Nil 5) Nil	1) Nil 2) Nil 3) Nil 4) Nil 5) Nil	Mine was not operational.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1) 2500 2) 1.00 ha 3) Plantation	1) 2150 2) Nil 3) Plantation	Mine was not operational.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly Monitoring of Air, water, noise monitoring	Quarterly Monitoring of Air, water, noise monitoring	Mine was not operational.
6f	General remarks of inspecting & progressive closure operations.	Mine was not operational. However, Compliance of Environmental monitoring and planation was being done by the lessee.		

### Mineral Conservation

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	Mine was not operational
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	Mine was not operational
7c	Different grade of mineral sorted out at mines	Nil	Nil	Mine was not operational
7d	Any beneficiation process at mines	Nil	Nil	Mine was not operational
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mine was not operational		

### Environment

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Continuous Spreading over backfilled area	Nil	Mine was not operational
8b	Concurrent use or storage of topsoil	Nil	Nil	Mine was not operational
8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	Nil	Nil	Mine was not operational
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent Backfilling	Nil	Mine was not operational
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	NA
8f	Baseline information on existence of plantation & additional plantation done (Rule 42)	2500 Sapling	2150 Sapling	ok
8g	Survival rate	80%	80%	ok
8h	Water sprinkling on roads to control airborne dust	Regular sprinkling with Water tanker	Regular sprinkling with water tanker	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.	Mine was not operational however plantation has been done and aesthetic beauty in and around mines area. Has been maintained.
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### Compliance of Rule 45

Sl.No	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Annual return submitted for FY 23-24 Monthly return submitted up to June-24		
Sl.No.	Item			Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Mining Eng:</b> Amlendu Kumar  <b>Geologist-</b> Sayantan Das  <b>Manager:</b> Deepak Jha	<b>Mining Eng:</b> Amlendu Kumar  <b>Geologist-</b> Sayantan Das  <b>Manager:</b> Deepak Jha	Found ok with records.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Nil	Found ok with records.
9d	Scrutiny of Annual return on afforestation	1.00 Ha	Nil	Found ok with records.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	27979 MT	0 MT	Found ok with records.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	6096 MT (40 to 45%)	6096 MT (40 to 45%)	Found ok with records.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.	Ex-Mine Price-1243	Ex-Mine Price-1243	Found ok with records.
9h	Scrutiny of Annual return on fixed assets	192967535	192967535	Found ok with records.
9i	Scrutiny of Annual return on mining machineries	1. Shovel- 2 2. Dumper- 3 3. Rock Drill- 1 4. Loader -1 5. Dozer-0 6. Grader-0 7. Water Tanker-1 8. Crane-0	1. Shovel- 2 2. Dumper- 3 3. Rock Drill- 1 4. Loader -1 5. Dozer-0 6. Grader-0 7. Water Tanker-1 8. Crane-0	Found ok with records.

### **Details of violations observed during current inspection and compliance position of earlier violation pointed**

**Earlier Violation: 45(5)(b) dated 26.05.23; complied**

### **Violations Pointed out in current Inspection:**

1. Rule11(1): Surface plan has not been updated. Stock positioned in the mine of approximately 6069.00 MT has not been shown. Reclamation work done has also not been shown.

**(Name of inspecting officer with designation and date)**